**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1. Write a short definition for each of the following;**

**Conduction –** A type of heat transfer that requires the particles to be touching and close together.

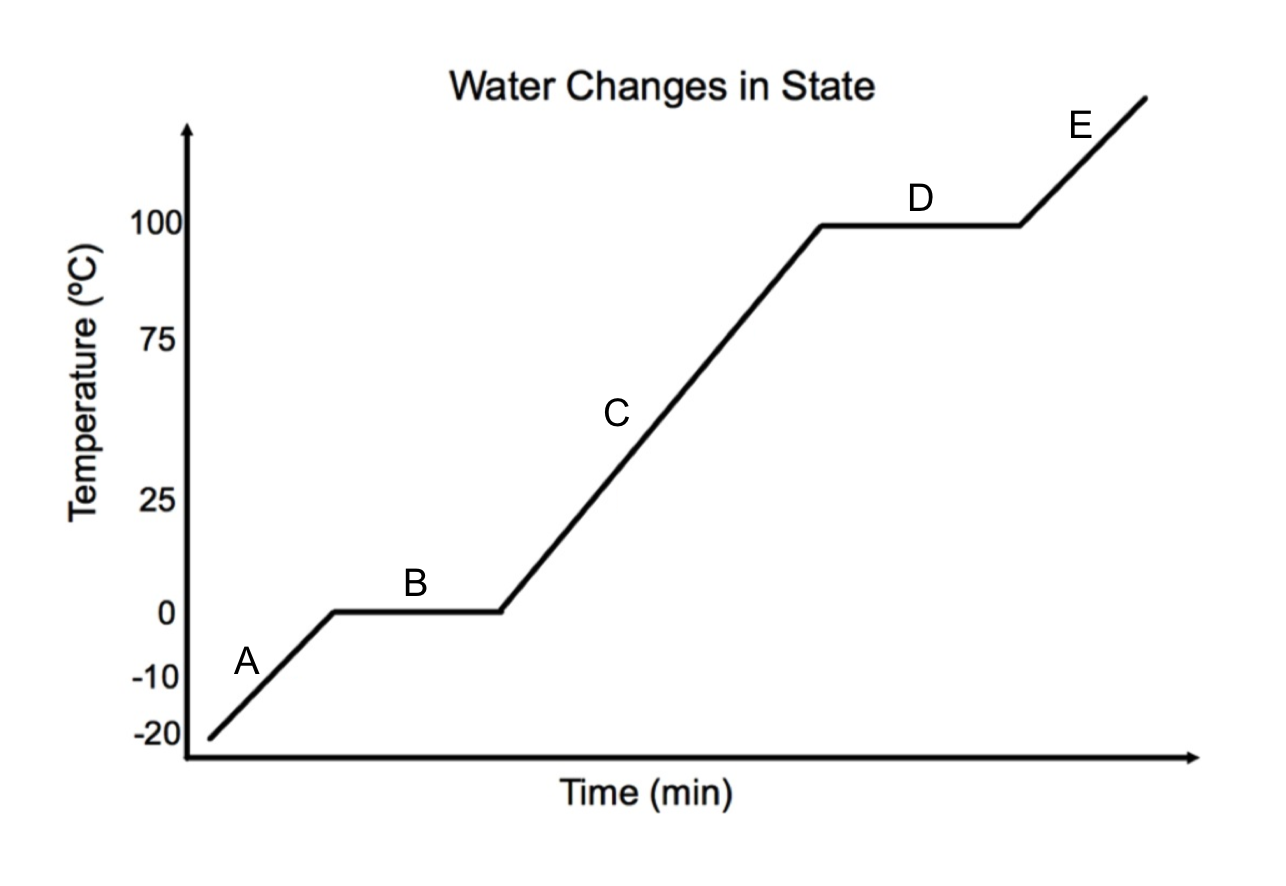
**Radiation –** A type of heat transfer that requires waves of energy that heats particles.

**Convection –** A type of heat transfer that heats up a liquid or gas and creates a current of hot air that rises.

**Heat –** A measure of the speed and quantity of particles in a substance.

**Temperature –** The relative measure of hotness of a substance.

**2. Label each letter found on the Water Changes in State Graph:**



**A.\_ Solid**

**B. Melting**

**C. Liquid Warming**

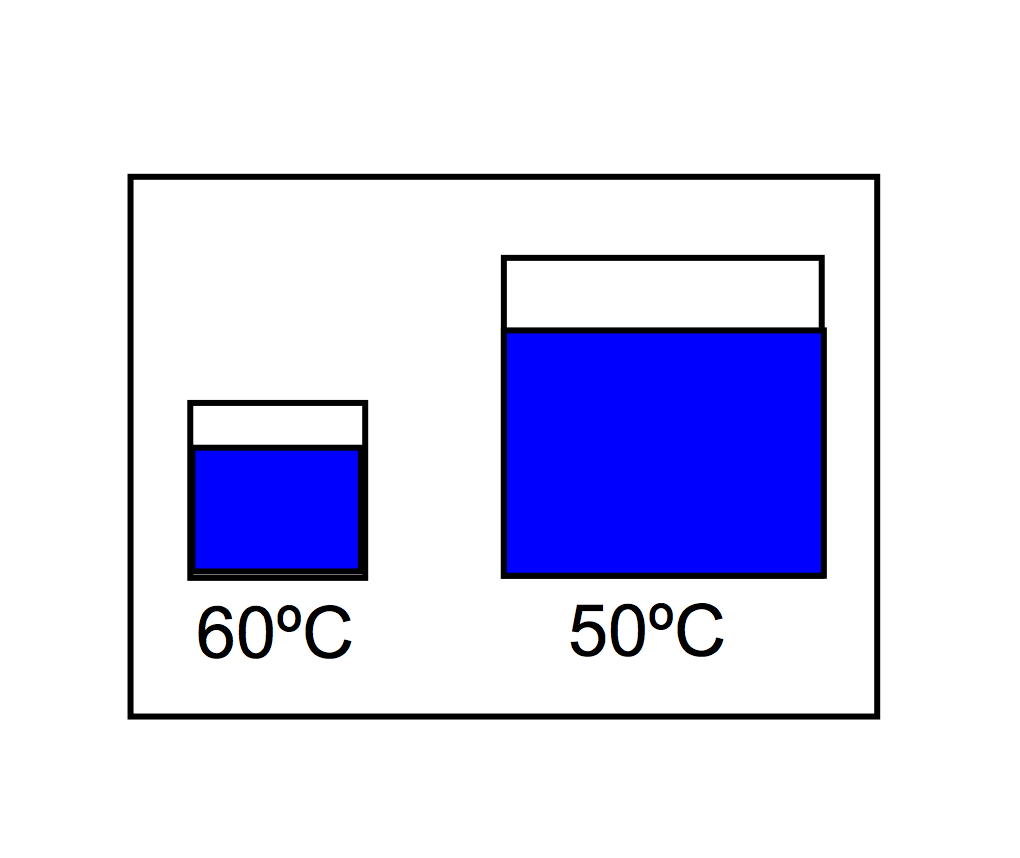
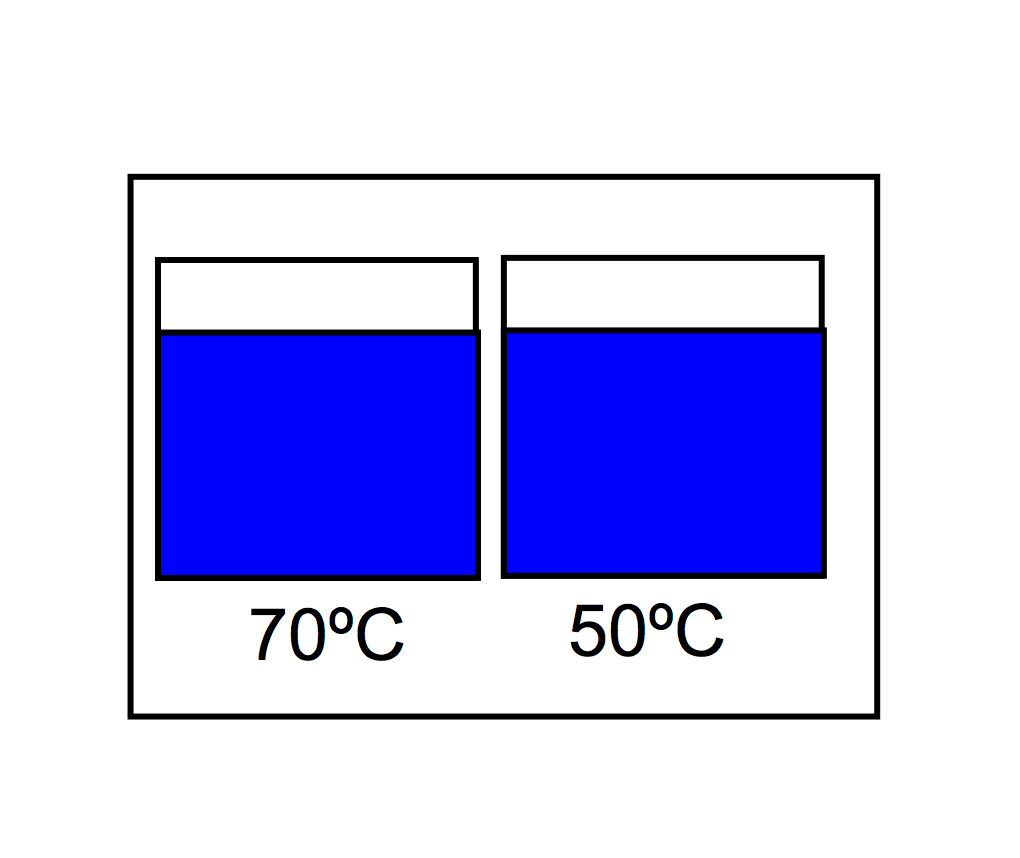
**D. Evaporation**

**E. Gas**

**3. Draw and label an alcohol thermometer on a separate sheet of loose leaf. Include the labels: Bore, Scale, Bulb, Alcohol, and Stem.**

**4. Fill in the following chart.**

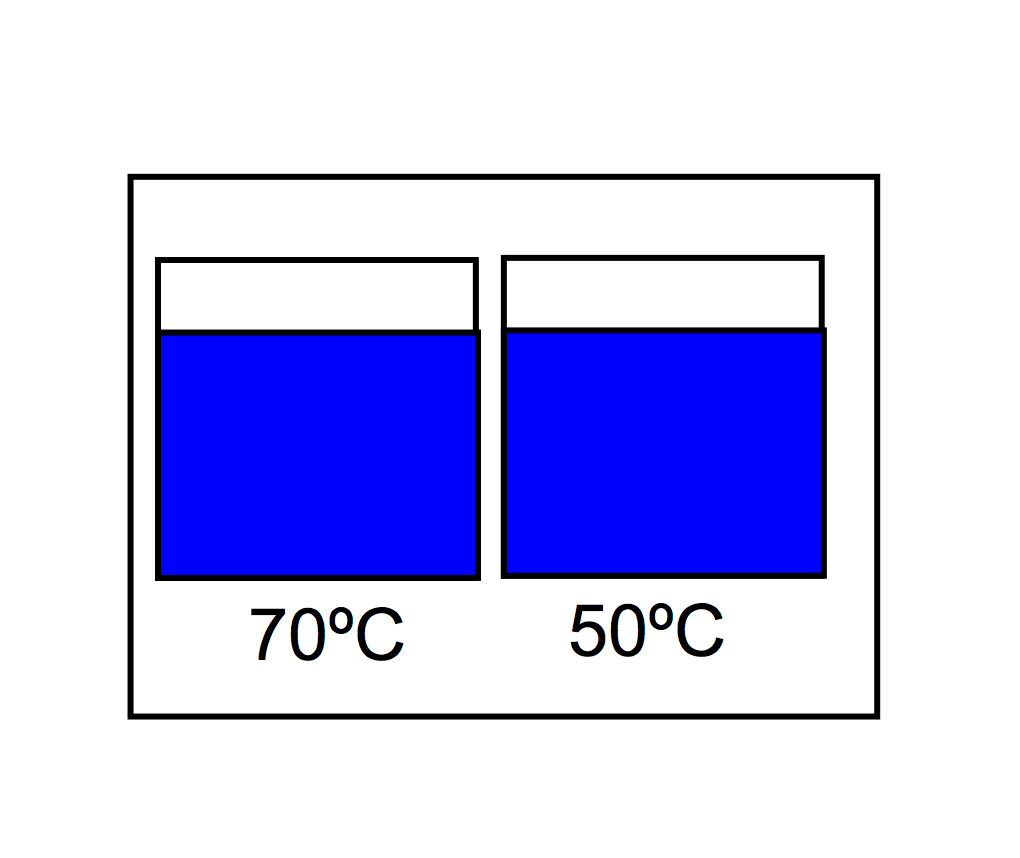
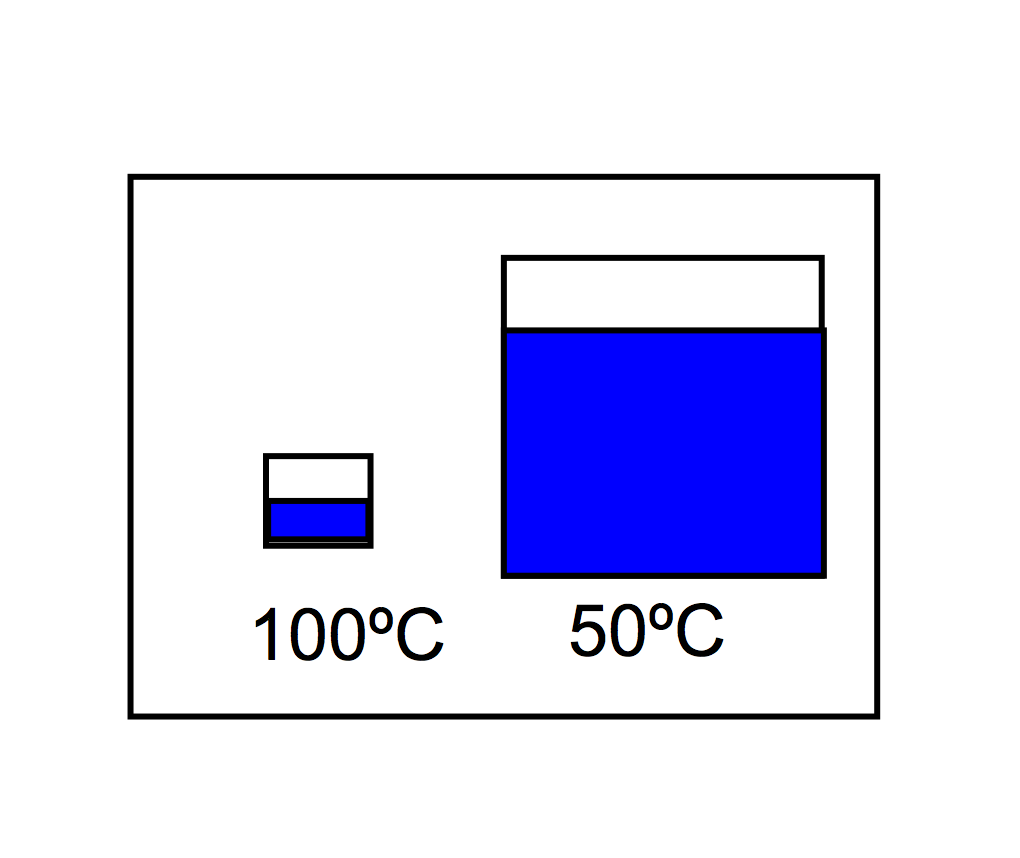
|  |  |  |  |
| --- | --- | --- | --- |
| **Property** | **Solid** | **Liquid** | **Gas** |
| **Movement** | Vibrate in place | Free Flowing | Random Movement |
| **Distance of particle** | Very close together | Close together | Very far apart |
| **Shape** | Definite Shape | Indefinite Shape | Indefinite Shape |
| **Volume** | Definite Volume | Definite Volume | Indefinite Volume |



**6. Circle the bucket of water that has more HEAT.**

**A**. **B**.

A> 50ºC has more heat B> 70ºC has more heat

7. **Circle the bucket of water that has a higher TEMPERATURE.**

**A> 70ºC has higher temperature B> 100ºC has higher temperature**

**A. B.**